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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/684,059 | 10/10/2003 | Yoshie Koderu | 16869S-097300US | 5252 |
| 20350 | 7590 | 06/26/2006 | EXAMINER | |
| TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834 | | | TRAN, HENRY N | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2629 | |

DATE MAILED: 06/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|------------------------|---------------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 10/684,059 | KODERA ET AL. | |
| | Examiner | Art Unit | |
| | Henry N. Tran | 2629 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,6,11 and 15 is/are rejected.
- 7) ☒ Claim(s) 3-5,7-10,12-14 and 16 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 October 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>1/13/05, 9/2/04, 10/10/04, 11/19/03</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This Application has been examined. The original claims 1-16 are pending. The examination results are as follows.

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on 5/21/2003. It is noted, however, that applicant has not filed a certified copy of the Japan Application No. 2003-142834 as required by 35 U.S.C. 119(b).

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the: "a driving line" (claim 11), and "a signal" (claim 15) must be shown or the features canceled from the claims. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an

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application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: "a driving line" recited in claim 11.

The Examiner suggests that the above claimed terms should be changed to: --a driving wire-- as described in lines 24-25 of page 11 of the Specification.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 2, 6, 11 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tajima et al (U.S. Patent No. 6,885,156, hereinafter referred to as "Tajima").

Re claim 1, Tajima, Fig. 1, teaches an electron-emitting display device comprising: a back substrate (1) formed with a plurality of electron emission elements (2); a display substrate (11) disposed opposite to said back substrate, said display substrate including an accelerating electrode (12) applied with an accelerating voltage for accelerating electrons from said electron emission elements, and luminescent materials ("phosphor") for emitting light when said

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luminescent materials come into collision with the electrons accelerated by the accelerating voltage; a frame member (4) for supporting said back substrate and said display substrate on the peripheries thereof, said frame member, said back substrate, and said display substrate surrounding a space to define a vacuum area (“a vacuum container”); and a conductor (100) electrically connected to said accelerating electrode (100) and applied with the accelerating voltage, wherein said conductor is routed outside of said vacuum area, and includes a connection part (103), which is “a lead-in wire”; see col. 10, line 18 to col. 11, line 9. Although Tajima does not expressly teach that the connector part which is removably connected to a connector for supplying the accelerating voltage. However, Tajima, Figs. 11 and 12, teaches the use of a connector (1100), which is “a contact plate” for being removably connected to lead-in wire (108) for supplying a voltage. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the connector (1100) for connecting to the connection part (103) because this would effectively and safely supply the desired high voltage to the display device. By this rationale, claim 1 is rejected.

Re claim 2, Tajima, Fig. 1, shows that the conductor (100) is routed to the corner and on a side of said display substrate (11) opposite to said back substrate (1) outside of said vacuum area, which is defined by the electron source area 2 and the image-forming member 12.

Re claim 6, which comprises similar claimed elements and limitations of claim 1, and further recites that the conductor includes a connection part, which is embedded between said optically transparent substrate and said frame member. Tajima further teaches that the conductor (100) is embedded between the optically transparent substrate (11) and the frame member (4);

see Fig. 1. Claim 6 is therefore rejected on the same reasons set forth in claim 1, and by the reason noted above.

Re claim 11, Tajima, Fig. 5, further teaches that the back substrate (1) includes a driving line (3-1 and -2) for driving said electron emission elements (2), and an electrode area (401-X and 401-Y) to which an electrode is drawn out for connection to said driving line; and said conductor is routed along a side on which said electrode area is not formed, see Fig. 1. Claim 11 is dependent upon the base claim 6, and is therefore rejected on the same reasons set forth in claim 6, and by the reasons discussed above.

Re claim 15, which comprises similar claimed elements and limitations of claims 1, 2, 6 and 11, and are therefore rejected on the same reasons set forth in claims 1, 2, 6 and 11 discussed above.

Allowable Subject Matter

6. Claims 3-5, 7-10, 12-14 and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. They are U.S. Patents Nos.: 6,700,330 issued to Koyama, 6,476,547 issued to Kawase, 6,342,875 issued to Todokoro, and 6,114,804 issued to Kawase et al, which teach display devices having electroluminescent materials with different electrodes, lead wires, and connections arrangements.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry N. Tran whose telephone number is 571-272-7760. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BIPIN H. SHALWALA can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Henry N Tran
Primary Examiner
Art Unit 2629

HT 
6/21/06